# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 07/26/2021 09:05 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 09:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 12757 | Expiration Date: | 06/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124644 | -1 | 1.24 | 124561 | 1.20 |
| Blue | F | SSC | 125000 | 124615 | -1 | 2.40 | 124995 | 2.26 |
| Blue | E | FITC | 13131 | 12739 | -3 | 2.17 | 294 | 15.04 |
| Blue | D | PE | 24112 | 23688 | -2 | 1.62 | 544 | 10.45 |
| Blue | B | PerCP-Cy5-5 | 31295 | 30493 | -3 | 2.90 | 1009 | 13.78 |
| Blue | A | PE-Cy7 | 19939 | 19804 | -1 | 4.98 | 531 | 27.75 |
| Red | C | APC | 42122 | 41647 | -2 | 3.07 | 1745 | 11.29 |
| Red | A | APC-Cy7 | 22340 | 21740 | -3 | 3.30 | 813 | 11.56 |
| Violet | B | V450 | 7410 | 7131 | -4 | 3.61 | 429 | 12.23 |
| Violet | A | V500 | 28118 | 26879 | -5 | 3.26 | 668 | 9.82 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23066 | 0.93 | 560 | -9 | N/A | N/A | Pass |
| Blue | F | SSC | 58166 | 1.09 | 513 | 1 | N/A | N/A | Pass |
| Blue | E | FITC | 54 | 54.62 | 481 | -6 | 0.0472 | 155 | Pass |
| Blue | D | PE | 115 | 36.61 | 483 | -5 | 0.4829 | 370 | Pass |
| Blue | B | PerCP-Cy5-5 | 186 | 35.08 | 579 | -7 | 0.0228 | 109 | Pass |
| Blue | A | PE-Cy7 | 106 | 65.23 | 622 | -6 | 0.0243 | 2 | Pass |
| Red | C | APC | 404 | 23.22 | 576 | 0 | 0.0284 | 136 | Pass |
| Red | A | APC-Cy7 | 182 | 26.69 | 550 | -1 | 0.0063 | 770 | Pass |
| Violet | B | V450 | 60 | 62.00 | 451 | -2 | 0.0696 | 2484 | Pass |
| Violet | A | V500 | 97 | 35.38 | 462 | -3 | 0.0277 | 1142 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 07/26/2021 09:05 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 09:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.88 | -31.59 | 1.11 |
| Blue | 20.35 | 16.28 - 24.42 | 1.29 | 1.02 - 1.52 | 0.00 | 0.00 | 1.42 |
| Red | 16.25 | 13.60 - 20.40 | N/A | N/A | 30.00 | 30.22 | 1.22 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.75

## Threshold

Threshold (FSC): 14687

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments